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CLAIMS: The following is a listing of all claims in the application with their status and the text of all active claims.

1. (CURRENTLY AMENDED) A pulse tube cooler in combination with a cooling load wherein said cooling load is contained within the envelope of enclosed by the pressure vessel of said pulse tube cooler, and wherein

said cooling load is in direct contact with the working fluid of said pulse tube cooler, and wherein

flow distributer means are interposed between said cooling load and the pulse tube of said pulse tube cooler.

- 2. (ORIGINAL) The combination of claim 1 wherein said cooling load is an electrical device.
- 3. (ORIGINAL) The combination of claim 2 wherein said electrical device is selected from the group consisting of motors and generators.
- 4. (ORIGINAL) The combination of claim 2 wherein said electrical device comprises a rotating element of a device selected from the group consisting of motors and generators.
- 5. (ORIGINAL) The combination of claim 2 wherein said electrical device is selected from the group consisting of electromagnets and transformers.

- 6. (ORIGINAL) The combination of claim 2 wherein said electrical device comprises components selected from the group consisting of transistors, diodes, capacitors, rectifiers and integrated circuits.
- 7. (ORIGINAL) The combination of claim 2 wherein said electric device comprises an electrooptical device.
- 8. (ORIGINAL) The combination of claim 7 wherein said electro-optical device senses radiation in the infrared spectrum.
- 9. (ORIGINAL) The combination of claim 7 wherein said electro-optical device comprises a focal plane array.
- 10. (CURRENTLY AMENDED) The combination of claim 1 A pulse tube cooler in combination with a cooling load wherein

said cooling load is contained within the envelope of the pressure vessel of said pulse tube cooler, and wherein

flow distributer means are interposed between said cooling load and the pulse tube of said pulse tube cooler and wherein

said cooling load comprises an electro-optical device, and wherein said envelope of said pressure vessel of said pulse tube cooler contains a transparent window.

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- 11. (ORIGINAL) The combination of claim 1 wherein said cooling load comprises superconducting material.
- 12. (ORIGINAL) The combination of claim 1 wherein said cooling load comprises superconducting wire.
- 13. (ORIGINAL) The combination of claim 1 wherein said flow distributer means are selected from the group consisting of stacked screens and perforated plates.
- 14. (ORIGINAL) The combination of claim 1 wherein said flow distributer means are selected from the group consisting of diffuser nozzles and diffuser cones.